

Title (en)

TRANSPORT OF SOLUTIONS OF CELLULOSE THROUGH PIPES

Title (de)

TRANSPORT VON CELLULOSELÖSUNGEN DURCH ROHRLEITUNGEN

Title (fr)

TRANSPORT DE SOLUTIONS DE CELLULOSE PAR DES TUYAUX

Publication

EP 0668941 B1 19960717 (EN)

Application

EP 94915636 A 19940520

Priority

- GB 9401091 W 19940520
- US 6918493 A 19930528

Abstract (en)

[origin: WO9428213A1] A method for transporting a solution of cellulose in aqueous N-methylmorpholine N-oxide through a pipe, the temperature in degrees centigrade of said solution in the centre of said pipe being controlled at $1000/(X + 0.19 \times 2\sqrt{D})$ and/or the temperature of said solution at the interior wall of said pipe being controlled at $1000/(Y + 0.23 \times 2\sqrt{D})$ where D represents the internal diameter of the pipe in millimetres, X represents a value equal to or greater than 5.0, and Y represents a value equal to or greater than 5.4.

IPC 1-7

D01F 2/00

IPC 8 full level

F17D 3/01 (2006.01); **B01J 19/00** (2006.01); **C08B 1/00** (2006.01); **D01D 1/09** (2006.01); **D01F 2/00** (2006.01); **D01F 2/02** (2006.01)

CPC (source: EP KR US)

C08B 1/003 (2013.01 - EP US); **D01F 2/00** (2013.01 - EP KR US)

Cited by

DE10033406A1; US7217317B1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

WO 9428213 A1 19941208; AT 855 U1 19960625; AT E140489 T1 19960815; AU 6727194 A 19941220; AU 677663 B2 19970501; BR 9406110 A 19960206; CA 2163269 A1 19941208; CN 1039250 C 19980722; CN 1123040 A 19960522; CZ 286774 B6 20000712; CZ 314595 A3 19980415; DE 69400311 D1 19960822; DE 69400311 T2 19961128; DE 69400311 T3 20060803; DK 0668941 T3 19961125; EP 0668941 A1 19950830; EP 0668941 B1 19960717; EP 0668941 B2 20060104; ES 2092410 T3 19961116; ES 2092410 T5 20060816; FI 106637 B 20010315; FI 955740 A0 19951128; FI 955740 A 19951128; GR 3021215 T3 19961231; HK 1004572 A1 19981127; HU 217089 B 19991129; HU 9503239 D0 19960129; HU T72910 A 19960628; JP 3473770 B2 20031208; JP H08510819 A 19961112; KR 100301788 B1 20011022; KR 960702550 A 19960427; MY 110979 A 19990731; NO 309872 B1 20010409; NO 954812 D0 19951127; NO 954812 L 19951127; PH 30824 A 19971017; PL 172875 B1 19971231; PL 312220 A1 19960401; RU 2135650 C1 19990827; SG 46714 A1 19980220; SK 148495 A3 19961204; SK 283523 B6 20030911; TR 28379 A 19960516; TW 239109 B 19950121; US 5354371 A 19941011; US 5401304 A 19950328; ZA 943389 B 19950123

DOCDB simple family (application)

GB 9401091 W 19940520; AT 901194 U 19940520; AT 94915636 T 19940520; AU 6727194 A 19940520; BR 9406110 A 19940520; CA 2163269 A 19940520; CN 94192087 A 19940520; CZ 314595 A 19940520; DE 69400311 T 19940520; DK 94915636 T 19940520; EP 94915636 A 19940520; ES 94915636 T 19940520; FI 955740 A 19951128; GR 960402410 T 19960913; HK 98103786 A 19980504; HU 9503239 A 19940520; JP 50035595 A 19940520; KR 19950704959 A 19951108; MY PI19941245 A 19940517; NO 954812 A 19951127; PH 48313 A 19940520; PL 31222094 A 19940520; RU 95122619 A 19940520; SG 1996009150 A 19940520; SK 148495 A 19940520; TR 49894 A 19940517; TW 83104565 A 19940518; US 24739594 A 19940523; US 6918493 A 19930528; ZA 943389 A 19940517